



(11) **EP 1 555 862 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
08.08.2007 Bulletin 2007/32

(51) Int Cl.:
H05K 1/18 ^(2006.01) **H01L 23/538** ^(2006.01)
H05K 3/46 ^(2006.01)

(43) Date of publication A2:
20.07.2005 Bulletin 2005/29

(21) Application number: **05001025.5**

(22) Date of filing: **19.01.2005**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR LV MK YU

(72) Inventors:
• **Uwada, Kazuki**
Ibaraki-shi
Osaka (JP)
• **Hotta, Yuji**
Ibaraki-shi
Osaka (JP)

(30) Priority: **19.01.2004 JP 2004010372**

(71) Applicant: **NITTO DENKO CORPORATION**
Osaka (JP)

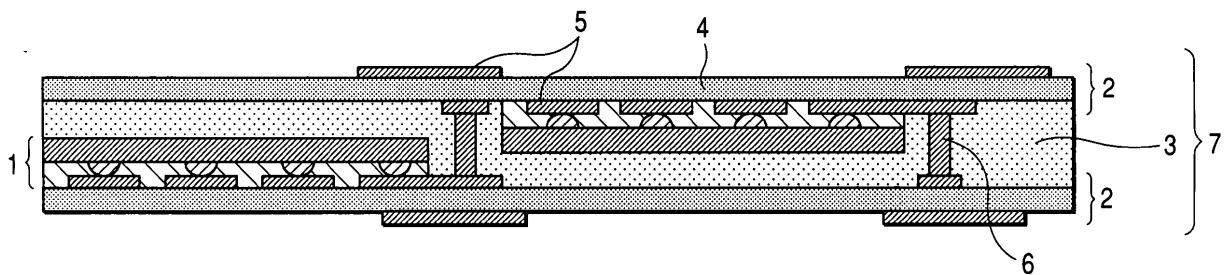
(74) Representative: **Grünecker, Kinkeldey,**
Stockmair & Schwanhäusser
Anwaltssozietät
Maximilianstrasse 58
80538 München (DE)

(54) **Process for producing circuit board having built-in electronic part**

(57) The present invention provides a process for producing a circuit board (7) having built-in electronic parts (1), which comprises the steps of: disposing two wiring circuit boards (2) each having an electronic part

(1) mounted thereon so that the electronic-part-mounting sides of the respective circuit boards (2) face each other; disposing a resin layer (3) between the circuit boards (2); and press-bonding the resin layer (3) to the circuit boards (2).

FIG. 1



EP 1 555 862 A3



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
P,A	EP 1 460 093 A1 (NITTO DENKO CORP [JP]) 22 September 2004 (2004-09-22) * claims * -----	3,4	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 28 June 2007	Examiner Mes, Leendert
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

1
EPO FORM 1503 03/02 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 05 00 1025

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-06-2007

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2164096	A	25-06-1990	NONE	
US 2001040793	A1	15-11-2001	JP 2001217388 A KR 20010078136 A	10-08-2001 20-08-2001
JP 8148838	A	07-06-1996	JP 3733153 B2	11-01-2006
US 2003090883	A1	15-05-2003	CN 1418048 A EP 1304742 A2 KR 20030032892 A TW 550997 B US 2005269681 A1	14-05-2003 23-04-2003 26-04-2003 01-09-2003 08-12-2005
FR 2822338	A1	20-09-2002	NONE	
US 2003137045	A1	24-07-2003	CN 1449232 A	15-10-2003
JP 2002171071	A	14-06-2002	NONE	
JP 62155546	A	10-07-1987	NONE	
US 6180261	B1	30-01-2001	CN 1219097 A EP 0911876 A2 TW 382881 B	09-06-1999 28-04-1999 21-02-2000
EP 1460093	A1	22-09-2004	AT 344808 T CN 1526751 A DE 602004003084 T2 JP 2004269691 A KR 20040078920 A US 2004176547 A1	15-11-2006 08-09-2004 15-02-2007 30-09-2004 13-09-2004 09-09-2004